

ENH500

LONG RANG WIRELESS 11N OUTDOOR CB/AP

IEEE802.11a/n

2T+2R

300Mbps

CB/AP/CR/WDS



Package Contents

- 1 x ENH500
- 1 x Power Adapter(24V/1A)
- 1 x PoE Injector(EPE-24R)
- 1 x Pole Mount
- 1 x Screw Set
- 1 x CD(User Manual)
- 1 x Quick Guide
- 1 x Supporting Card

ENH500 Wireless Outdoor CPE features 13dBi high gain antenna dual polarization with high output power and high sensitivity can extend the transmission range to deliver a stable wireless connection. ENH500 integrates 4 operation modes: Access Point, Client Bridge, Client Router and WDS.

With integrated 13dBi dual-polarized antenna, it's convenient to build a long range wireless link while reducing dead spots. Advanced multi-function operation modes offer flexibility in constructing scalable wireless networks for all possible applications. ENH500 is designed to deliver reliable service under harsh outdoor environment with strong waterproof protection and tailored to accommodate multimedia streaming services with data-rate up to 300Mbps. Most importantly, it is built-in encryption standards (WEP, WPA, WPA2, TKIP/AES and IEEE802.1x) ensure maximum security and compatibility.

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FEATURES

Hardware Features	
High output power	Transmit high output power programmable for different country selections
High Data Rate	High speed transmitting rate up to 300Mbps with 2T2R 802.11n
Long range transmitting	Transmit power control and distance control (ACK timeout)
Signal Strength Display	Indicate RF signal strength to be shown as LEDs of 3 colors, making network build-up easier. LED indicators have the best transmit and receive signal for traffic communication
PoE Support	Support proprietary 24V passive power over Ethernet

Software Features	
Multiple SSID	4 SSID supported. Each SSID can set itself wireless or WAN access setting
PPPoE	Point-to-Point Protocol over Ethernet at Client Router mode. This function will keep trying when failed or disconnected
PPTP	Point-to-Point Tunneling Protocol (PPTP) is a method for implementing virtual private networks
VLAN Pass-through	Support VLAN Pass-through
Firmware Upgrade	Upgrading firmware via web browser, setting are reserved after upgrade
Reset & Backup	Reset to factory default. User can export all setting into a file via WEB
Ping & Trace Route	Built-in PING function & Trace Route function in Web GUI
MIB	MIB I, MIB II(RFC1213), Private MIB
SNMP	V1, V2c

SPECIFICATION

Hardware Specification	
MCU	Atheros AR7240
RF	Atheros AR9280
Memory	32MB
Flash	8MB
Physical Interface	2 x RJ-45 for 10/100 Fast Ethernet

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	1 x Reset Button			
Power Requirements	- Active Ethernet (Power over Ethernet) - Proprietary PoE design - Power Adapter 24V / 1A			
RF Specification				
Frequency Band	802.11a/n			
Data rate	300 Mbps			
Radio Frequency Band (The Max. Power may be different depending on local regulations)	Channel	Data Rate	Tx Avg. Power (±2dBm)	Rx Sensitivity (±2dBm)
	802.11a (5.18 ~ 5.825GHz)	6Mbps	27	-95
		9Mbps	27	-92
		12Mbps	27	-89
		18Mbps	27	-85
		24Mbps	27	-81
		36Mbps	26	-79
		48Mbps	24	-76
		54Mbps	23	-75
	802.11n(5.18 ~ 5.825GHz)	MCS0 / MCS8	27	-94
		MCS1 / MCS9	27	-92
		MCS2 / MCS10	26	-88
		MCS3 / MCS11	26	-85
		MCS4 / MCS12	25	-80
		MCS5 / MCS13	24	-79
		MCS6 / MCS14	24	-74
		MCS7 / MCS15	23	-73
Antenna	Internal 13dBi Directional Antenna (Dual Polarization)			
Software Specification				
Operation Mode	Access Point / Client Bridge / Client Router / WDS			
Wireless/Network	Auto Channel Selection (Setting varies by Regular Domains) Distance Control (802.1x Ack timeout) CLI Supported 802.1x Supplicant (CB Mode) Multiple SSID (4 SSID), BSSID WDS AP / WDS Bridge / WDS Station Multicast Supported			

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	RADIUS Accounting VLAN Tag / VLAN Pass-through Auto Reboot Obey Regulatory Power DFS Compatible
Security	<ul style="list-style-type: none"> - WEP Encryption-64/128/152 bit - WPA/WPA2 Personal (WPA-PSK using TKIP or AES) - WPA/WPA2 Enterprise (WPA-EAP using TKIP) - Hide SSID in beacons - MAC address filtering, up to 50 field - Wireless STA (Client) connected list
QoS	WMM
Environment & Mechanical	
Temperature Range	Operating -20°C~70°C Storage -30°C to 80°C
Humidity (non-condensing)	0%~90% typical
ESD Protection	15KV (Certificated Standard is 8KV)
Dimensions	260mm (L) x 84mm (W) x 55mm (H)
Weight	380g